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FILE 'FSTA' ENTERED AT 13:07:16 ON 23 MAY 2007
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FILE 'FROSTI' ENTERED AT 13:07:16 ON 23 MAY 2007
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=> s whey
L1 26304 WHEY

=> s clarified
L2 2534 CLARIFIED

=> s bioactive
L3 3654 BIOACTIVE

=> s l1 and l2 and l3
L4 1 L1 AND L2 AND L3

=> d all

L4 ANSWER 1 OF 1 FROSTI COPYRIGHT 2007 LFRA on STN
AN 592231 FROSTI
TI Cytotoxic and antibacterial activities of chemically synthesized
kappa-casecidin and its partial peptide fragments.
AU Matin A.; Otani H.
SO Journal of Dairy Research, 2002, (May), 69 (2), 329-334 (21 ref.)
Published by: Cambridge University Press. Address: The Edinburgh
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Web: www.cup.cam.ac.uk or www.journals.cup.org
ISSN: 0022-0299
DT Journal
LA English
AB Whey proteins, such as immunoglobulins, lactoferrin, lysozyme,
and lactoperoxidase are antimicrobial components in milk. Of the milk
casein components, kappa-casein digests have been shown to possess a
range of biological activities. A peptide, kappa-casecidin (peptide
sequence Phe-Phe-Ser-Asp-Lys), cytotoxic towards mouse spleen cells, has
been isolated from a trypsin digest of bovine kappa-casein. The purified
peptide showed antibacterial activities towards some pathogenic bacteria.
This study examined the cytotoxicity of the chemically synthesized
peptide and clarified the amino acid residues required for the
production of cytotoxic activity. The synthesized peptide produced
different levels of cytotoxicity towards mouse spleen cells, bovine milk
cells, and human cell lines. Activity was strongest towards normal and
transformed T cells compared with other cells. A human macrophage cell

line was most resistant to the peptide. Chemically synthesized kappa-casecidin inhibited the growth of some pathogenic bacteria. The terminal basic and hydrophobic residues were found to be essential for activity of the peptide. Antimicrobial peptides are discussed.

SH DAIRY PRODUCTS
CT ANTIBACTERIALS; ANTIMICROBIALS; BACTERIA; BIOACTIVE PEPTIDES;
CASEIN; CELLS; CYTOTOXICITY; IMMUNE RESPONSE; INHIBITION; KAPPA
CASECIDIN; MICROORGANISMS; MILK PROTEINS; PATHOGENIC BACTERIA; PATHOGENS;
PEPTIDES; PROTEINS; SPLEEN; T CELLS; TOXICITY
DED 4 Oct 2002

=> s 11 and 12

L5 172 L1 AND L2

=> s desalted or desalting

L6 546 DESALTED OR DESALTING

=> s 15 and 16

L7 1 L5 AND L6

=> d all

L7 ANSWER 1 OF 1 FSTA COPYRIGHT 2007 IFIS on STN

AN 1978(06):P0754 FSTA

TI [Method for producing clear whey protein solutions having a low bacteria content and good flavour stability and foamability.]

PA Netherlands, Stichting Bedrijven van het Nederlands Instituut voor Zuivelonderzoek

SO Netherlands Patent Application, (1977)

PI NL 7513645

DT Patent

LA Dutch

AB Whey protein containing liquids are clarified by desalting to an ash/protein ratio ≤ 0.08 and adjusting the protein content to $\leq 1.5\%$ by weight and the pH to 4.2-4.8, with the separation of any precipitated material from the liquid. Whey may be desalted by passing it over ion exchangers. Precipitated material may be removed by centrifuging and the obtained clear liquid may then be concentrated by ultrafiltration. The product may be used as an ingredient in food products.

CC P (Milk and Dairy Products)

CT PATENTS; PROCESSING; PROTEINS MILK; WHEY; FOODS; NETHERLANDS;
PATENT; WHEY PROTEINS

WEST Search History

DATE: Wednesday, May 23, 2007

Hide?	Set Name	Query	Hit Count
	<i>DB=USPT,USOC; PLUR=YES; OP=OR</i>		
<input type="checkbox"/>	L18	l16 and L17	66
<input type="checkbox"/>	L17	whey.ti.	424
<input type="checkbox"/>	L16	l13 and l15	127
<input type="checkbox"/>	L15	whey.ab.	840
<input type="checkbox"/>	L14	whey.ab3	0
<input type="checkbox"/>	L13	l10 and l11 and L12	189
<input type="checkbox"/>	L12	ultrafiltration or ultrafiltrated or ultrafiltrating or uf or diafiltration or diafiltrating or diafiltrated	41508
<input type="checkbox"/>	L11	defatted or clarified or clarification or defatting	63557
<input type="checkbox"/>	L10	whey.clm.	1790
	<i>DB=USOC,EPAB,JPAB; PLUR=YES; OP=OR</i>		
<input type="checkbox"/>	L9	(desalting or desalted) and (defatted or defatting or clarification or clarifying or clarified) and whey	7
	<i>DB=USPT,USOC,EPAB,JPAB; PLUR=YES; OP=OR</i>		
<input type="checkbox"/>	L8	desalting adj1 (defatted or defatting or clarification or clarifying or clarified) adj1 whey	0
<input type="checkbox"/>	L7	desalted adj1 (defatted or clarified) adj1 whey	0
	<i>DB=USPT; PLUR=YES; OP=OR</i>		
<input type="checkbox"/>	L6	l3 and L5	35
<input type="checkbox"/>	L5	whey.clm.	1790
<input type="checkbox"/>	L4	((desalted or desalting) and (clarified or defatted) and whey).clm.	3
<input type="checkbox"/>	L3	(desalted or desalting) and (clarified or defatted) and whey	90
<input type="checkbox"/>	L2	desalted and (clarified or defatted) and whey	61
<input type="checkbox"/>	L1	5866418.pn. 6319522.pn.	2

END OF SEARCH HISTORY